

Title (en)

DEVICE AND METHOD FOR CONTROLLING SWING OF CONSTRUCTION EQUIPMENT

Title (de)

VORRICHTUNG UND VERFAHREN ZUR STEUERUNG EINES SCHAUKELENS VON BAUAUSRÜSTUNGEN

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR COMMANDER LE PIVOTEMENT D'UN ÉQUIPEMENT DE CONSTRUCTION

Publication

EP 2439344 A4 20170208 (EN)

Application

EP 10783564 A 20100601

Priority

- KR 2010003503 W 20100601
- KR 20090048634 A 20090602

Abstract (en)

[origin: EP2439344A2] Disclosed is a swing control apparatus of construction machinery, including: a hydraulic pump 100 discharging working oil for driving a swing motor 120 and controlling a discharge flux according to an input pump command value V_{pump} ; a pressure sensor 102 sensing pressure of the working oil discharged from the hydraulic pump 100; and a control unit 150 calculating the pump command value V_{pump} based on a swing operation quantity V_{sw} input from the swing operation unit 130 to output the calculated pump command value to the hydraulic pump 100, wherein when the input swing operation quantity V_{sw} is larger than a preset reference swing operation quantity V_{swo} and the discharge pressure P_{pump} of the hydraulic pump 100 detected by the pressure sensor 102 is lower than a first reference pressure P_{swr1} , the control unit 150 calculates a converted swing operation quantity V_{sw}' gradually increasing from the reference swing operation quantity V_{swo} to the input swing operation quantity V_{sw} and calculates the pump command value V_{pump} of the hydraulic pump 100 corresponding to the converted swing operation quantity V_{sw}' .

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

- [A] EP 0545271 A1 19930609 - SAMSUNG HEAVY IND [KR]
- See references of WO 2010140815A2

Cited by

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Designated contracting state (EPC)

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EP 2439344 A2 20120411; **EP 2439344 A4 20170208**; **EP 2439344 B1 20181205**; CN 102803622 A 20121128; CN 102803622 B 20160106; KR 101582689 B1 20160105; KR 20100129995 A 20101210; US 2012090309 A1 20120419; US 9085870 B2 20150721; WO 2010140815 A2 20101209; WO 2010140815 A3 20110303

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